

**ENTERED**

OICE

RAW SEQUENCE LISTING

DATE: 01/07/2003

PATENT APPLICATION: US/09/757,788A

TIME: 14:03:51

Input Set : A:\pto.vsk.txt

Output Set: N:\CRF4\01072003\I757788A.raw

3 <110> APPLICANT: Anderson, Keith
4 Agerso, Henrik
6 <120> TITLE OF INVENTION: Transepithelial Delivery of
7 GLP-Derivatives
9 <130> FILE REFERENCE: 6116.200-US
11 <140> CURRENT APPLICATION NUMBER: US 09/757,788A
C--> 12 <141> **CURRENT FILING DATE: 2002-12-13**
14 <150> PRIOR APPLICATION NUMBER: US 60/177,002
15 <151> PRIOR FILING DATE: 2000-01-19
17 <150> PRIOR APPLICATION NUMBER: DK 2000 00030
18 <151> PRIOR FILING DATE: 2000-01-11
20 <160> NUMBER OF SEQ ID NOS: 5
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 39
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Synthetic
W--> 32 <221> **NAME/KEY: MUTAGEN**
33 <222> LOCATION: 2
34 <223> OTHER INFORMATION: Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu Asp,
35 Met or Lys
W--> 37 <221> **MUTAGEN**
38 <222> LOCATION: 3
39 <223> OTHER INFORMATION: Xaa = Glu, Asp, or Lys
W--> 41 <221> **MUTAGEN**
42 <222> LOCATION: 5
43 <223> OTHER INFORMATION: Xaa =Thr, Ala, Gly, Ser, Leu, Ile, Val, Glu, Asp,
44 or Lys
W--> 46 <221> **MUTAGEN**
47 <222> LOCATION: 8
48 <223> OTHER INFORMATION: Xaa = Ser, Ala, Gly, Thr, Leu, Ile, Val, Glu, Asp,
49 or Lys
W--> 51 <221> **MUTAGEN**
52 <222> LOCATION: 10
53 <223> OTHER INFORMATION: Xaa = Val, Ala, Gly, Ser, Thr, Leu, Ile, Tyr, Glu,
54 Asp, or Lys
W--> 56 <221> **MUTAGEN**
57 <222> LOCATION: 11
58 <223> OTHER INFORMATION: Xaa = Ser, Ala, Gly, Thr, Leu, Ile, Val, Glu, Asp
59 or Lys
W--> 61 <221> **MUTAGEN**

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62 <222> LOCATION: 12
63 <223> OTHER INFORMATION: Xaa = Ser, Ala, Gly, Thr, Leu, Ile, Val, Glu, Asp,
64 or Lys
W--> 66 <221> MUTAGEN
67 <222> LOCATION: 13
68 <223> OTHER INFORMATION: Xaa = Tyr, Phe, Trp, Glu, Asp, or Lys
W--> 70 <221> MUTAGEN
71 <222> LOCATION: 14
72 <223> OTHER INFORMATION: Xaa = Leu, Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu,
73 Asp, or Lys
W--> 75 <221> MUTAGEN
76 <222> LOCATION: 15
77 <223> OTHER INFORMATION: Xaa = Glu, Asp, or Lys
W--> 79 <221> MUTAGEN
80 <222> LOCATION: 16
81 <223> OTHER INFORMATION: Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp,
82 or Lys
W--> 84 <221> MUTAGEN
85 <222> LOCATION: 17
86 <223> OTHER INFORMATION: Xaa = Gln, Asn, Arg, Glu, Asp, or Lys
W--> 88 <221> MUTAGEN
89 <222> LOCATION: 18
90 <223> OTHER INFORMATION: Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Arg, Glu,
91 Asp, or Lys
W--> 93 <221> MUTAGEN
94 <222> LOCATION: 19
95 <223> OTHER INFORMATION: Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu, Asp,
96 or Lys
W--> 98 <221> MUTAGEN
99 <222> LOCATION: 20
100 <223> OTHER INFORMATION: Xaa = Lys, Arg, Gln, Glu, Asp or His
W--> 102 <221> MUTAGEN
103 <222> LOCATION: 21
104 <223> OTHER INFORMATION: Xaa = Glu, Asp or Lys
W--> 107 <221> MUTAGEN
108 <222> LOCATION: 24
109 <223> OTHER INFORMATION: Xaa = Ala, Gly, Ser, Thr, Leu, Ile, Val, Glu, Asp,
110 or Lys
W--> 112 <221> MUTAGEN
113 <222> LOCATION: 25
114 <223> OTHER INFORMATION: Xaa = Trp, Phe, Tyr, Glu, Asp, or Lys
W--> 117 <221> MUTAGEN
118 <222> LOCATION: 26
119 <223> OTHER INFORMATION: Xaa = Leu, Gly, Ala, Ser, Thr, Ile, Val, Glu, Asp, or Lys
W--> 121 <221> MUTAGEN
122 <222> LOCATION: 27
123 <223> OTHER INFORMATION: Xaa = Val, Gly, Ala, Ser, Thr, Leu, Ile, Glu, Asp, or Lys
W--> 125 <221> MUTAGEN
126 <222> LOCATION: 28

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```

127 <223> OTHER INFORMATION: Xaa = Lys, Arg, Glu, Asp, or His
W--> 129 <221> MUTAGEN
130 <222> LOCATION: 29
131 <223> OTHER INFORMATION: Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp or Lys
W--> 133 <221> MUTAGEN
134 <222> LOCATION: 30
135 <223> OTHER INFORMATION: Xaa = Arg, Lys, Glu, Asp, or His
W--> 137 <221> MUTAGEN
138 <222> LOCATION: 31
139 <223> OTHER INFORMATION: Xaa = Gly, Ala, Ser, Thr, Leu, Ile, Val, Glu, Asp, or Lys or
is deleted
W--> 141 <221> MUTAGEN
142 <222> LOCATION: 32
143 <223> OTHER INFORMATION: Xaa = Arg, Lys, Glu, Asp, or His, or is deleted
W--> 145 <221> MUTAGEN
146 <222> LOCATION: 33
147 <223> OTHER INFORMATION: Xaa = Arg, Lys, Glu, Asp, or His, or is deleted
W--> 149 <221> MUTAGEN
150 <222> LOCATION: 34
151 <223> OTHER INFORMATION: Xaa = Asp, Glu, or Lys, or is deleted
W--> 153 <221> MUTAGEN
154 <222> LOCATION: 35
155 <223> OTHER INFORMATION: Xaa = Phe, Trp, Tyr, Glu, Asp, or Lys, or is deleted
W--> 157 <221> MUTAGEN
158 <222> LOCATION: 36
159 <223> OTHER INFORMATION: Xaa = Pro, Lys, Glu, or Asp, or is deleted
W--> 161 <221> MUTAGEN
162 <222> LOCATION: 37
163 <223> OTHER INFORMATION: Xaa = Glu, Asp, or Lys, or is deleted
W--> 165 <221> MUTAGEN
166 <222> LOCATION: 38
167 <223> OTHER INFORMATION: Xaa = Glu, Asp, or Lys, or is deleted
W--> 169 <221> MUTAGEN
170 <222> LOCATION: 39
171 <223> OTHER INFORMATION: Xaa = Val, Glu, Asp, or Lys, or is deleted
W--> 173 <400> 1
W--> 174 His Xaa Xaa Gly Xaa Phe Thr Xaa Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
175 1 5 10 15
W--> 176 Xaa Xaa Xaa Xaa Xaa Phe Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
177 20 25 30
W--> 178 Xaa Xaa Xaa Xaa Xaa Xaa Xaa
179 35
181 <210> SEQ ID NO: 2
182 <211> LENGTH: 31
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
W--> 185 <220> FEATURE:
186 <223> OTHER INFORMATION: Synthetic
188 <400> SEQUENCE: 2
189 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

```

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```

190 1 5 10 15
191 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
192 20 25 30
194 <210> SEQ ID NO: 3
195 <211> LENGTH: 31
196 <212> TYPE: PRT
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: Synthetic
202 <400> SEQUENCE: 3
203 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
204 1 5 10 15
205 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Tyr
206 20 25 30
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 40
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
W--> 212 <220> FEATURE:
213 <223> OTHER INFORMATION: Synthetic
215 <400> SEQUENCE: 4
216 His Ser Asp Gly Thr Phe Ile Thr Ser Asp Leu Ser Lys Gln Met Glu
217 1 5 10 15
218 Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
219 20 25 30
220 Ser Ser Gly Ala Pro Pro Pro Ser
221 35 40
223 <210> SEQ ID NO: 5
224 <211> LENGTH: 40
225 <212> TYPE: PRT
226 <213> ORGANISM: Artificial Sequence
W--> 227 <220> FEATURE:
228 <223> OTHER INFORMATION: Synthetic
230 <400> SEQUENCE: 5
231 His Gly Glu Gly Thr Phe Ile Thr Ser Asp Leu Ser Lys Gln Met Glu
232 1 5 10 15
233 Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
234 20 25 30
235 Ser Ser Gly Ala Pro Pro Pro Ser
236 35 40

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/757,788A

DATE: 01/07/2003
TIME: 14:03:52

Input Set : A:\pto.vsk.txt
Output Set: N:\CRF4\01072003\I757788A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 2,3,5,8,10,11,12,13,14,15,16,17,18,19,20,21,24,25,26,27,28

Seq#:1; Xaa Pos. 29,30,31,32,33,34,35,36,37,38,39

VERIFICATION SUMMARY

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Input Set : A:\pto.vsk.txt

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:32 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:37 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:41 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:46 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:51 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:56 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:61 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:66 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:70 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:75 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:79 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:84 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:88 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:93 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:98 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:102 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:107 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:112 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:117 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:125 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:129 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:133 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:137 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:141 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:145 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:149 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:153 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:157 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:161 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:169 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:185 M:283 W: Missing Blank Line separator, <220> field identifier
L:212 M:283 W: Missing Blank Line separator, <220> field identifier
L:227 M:283 W: Missing Blank Line separator, <220> field identifier